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Title: STATE-SPECEFIC VARIANTS OF TRANSLATED CODE UNDER EMULATION

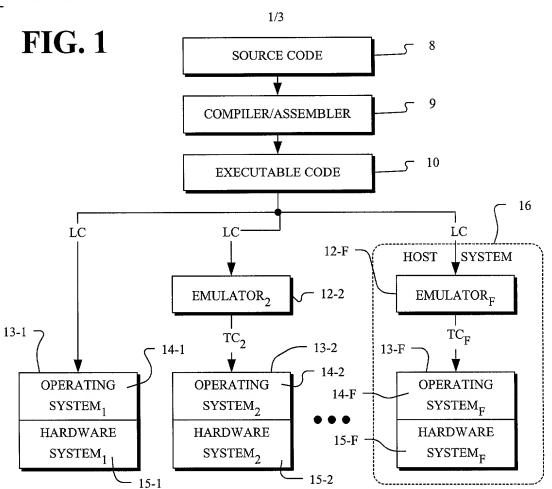


FIG. 2 16 26 HOST SYSTEM PROGRAM EXECUTION INFORMATION LC 24 **GROUP** LEGACY CODE **TRANSLATOR** TRANSLATOR STORE ACCESS 21 10 TRANSLATED 13-F CODE **CACHE EXECUTION** TCF 23 **UNIT**

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Fig

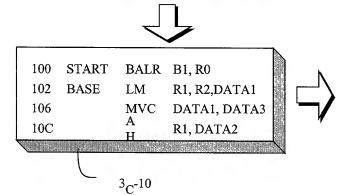
Title: STATE-SPECEFIC VARIANTS OF TRANSLATED CODE UNDER EMULATION 2/3

LEGACY CODE (CISC)

| 100 | START | BALR | B1,R0 | |
|-----|-------|--------|--------------|---|
| 102 | BASE | LM | R1,R2,DATA1 | i |
| 106 | | MVC | DATA1, DATA3 | |
| 10C | | A H | R1,DATA2 | |
| 110 | | SRA | R1,1 | |
| 114 | | SH | R2,DATA2 | |
| 118 | | AR | R1,R2 | |
| 11A | | BC | TARGET | |
| 120 | DATA1 | DC | X'005390BC' | |
| | | DC | X'09C20004' | |
| 128 | DATA2 | DC | X'0009' | |
| 12A | DATA3 | DC | X'800039AF' | |

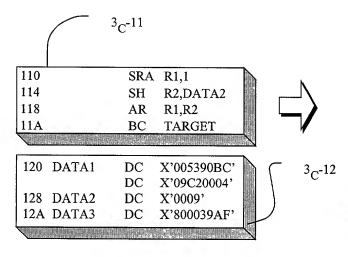
FIG. 3

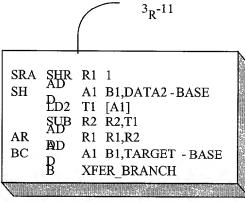
 $^{3}R^{-10}$



TRANSLATED CODE (RISC)

| BALRMOV | B1 BASE |
|---------------------|-------------------|
| LM AD | A1 B1,DATA1-BASE |
| D_{-} | · |
| LD4 | R1 [A1] |
| AD D | A1 A1,4 |
| ‡R4 | R2 [A1] |
| MVC AD | A1 B1,DATA1-BASE |
| HID - | A2 B1,DATA3-BASE |
| P _{D4} | T1 [A2] |
| A \$T4 | T1 [A1] |
| 111 111 | A1 B1,DATA2 -BASE |
| H P | |
| l \$15 ² | T1 [A1] |
| D | R1 R1,T1 |
| l R | XFER_SEQUENTIAL |
| | |





Inventor 1: Ronald Hilton

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